AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended) Device for treating a surface of
 a substrate, comprising:
- a treatment chamber for receiving the substrate therein,

at least one plasma source for generating a plasma, which plasma source is connected to the treatment chamber, and comprising inlet means for admitting at least one reactant into a flow path of the plasma,

wherein the plasma source comprises at least one cathode and at least one anode between which a system of at least two one cascade plates plate is received,

each cascade plate provided with at least two passage openings for the passage of plasma,

wherein corresponding openings of successive the cascade plates are plate openings respectively define at least substantially mutually aligned straight paths between the source and the substrate, and

between the at least one cathode and the system of at least one cascade plates plate there is a plasma space present which is in open communication with the passage openings.

- 2. (original) Device as claimed in claim 1, characterized in that the passage openings are ordered at least almost equidistantly from each other in the at least one cascade plate.
- 3. (currently amended) Device as claimed in claim 1, characterized in that the cascade plates are each plate is provided with at least three passage openings.
- 4. (previously presented) Device as claimed in claim 1, characterized in that the inlet means are adapted to admit the reactant, on a side of the adjacent cascade plate remote from the plasma space, into flow paths of the plasma extending through the openings.
- 5. (previously presented) Device as claimed in claim 1, characterized in that less than one cathode is provided per passage opening in the adjacent cascade plate.
- 6. (previously presented) Device as claimed in claim 1, characterized in that at least one cathode is provided per passage opening in the adjacent cascade plate.

7. (canceled)

- 8. (currently amended) Device as claimed in claim 2, characterized in that the cascade plates are each plate is provided with at least three passage openings.
- 9. (previously presented) Device as claimed in claim 2, characterized in that at least one cathode is provided per passage opening in the adjacent cascade plate.
- 10. (previously presented) Device for treating a surface of a substrate, comprising:
- a treatment chamber for receiving a substrate therein with an exposed, to-be-treated substrate area;
- a plasma source for generating plural separated plasma beams, each separated beam exiting the plasma source and directed to cover a different portion of the exposed substrate area,

the plasma source comprising a plasma reactant inlet, a cathode, and an anode;

a system of aligned cascade plates located between the cathode and anode,

the cascade plates each containing plural plasma passage openings, the passage openings of each cascade plate being aligned to define plural, separated plasma channels, each channel defining a separate plasma flow path; and

a common plasma space, situated between the cathode and a first of the cascade plates,

the common plasma space in open communication with the plural plasma channels,

the common plasma space accumulating plasma and distributing the accumulated plasma over the plural plasma channels of the first cascade plate, wherein,

exiting the plasma source is the plural, separated plasma beams (8), each plasma beam being directed to cover a different portion of the exposed substrate area.

- 11. (currently amended) Device for treating a surface of a substrate, comprising:
 - a treatment chamber;
- a substrate holder, within the treatment chamber, for holding a substrate to be treated including an exposed substrate area;
- a common plasma space to accumulate plasma from a plasma generator;
- a plasma source, accepting accumulated plasma from the common plasma space, with a discharge located opposite the substrate holder, the discharge providing plural, separated plasma beams (8) directed toward the substrate holder so that each plasma beam is directed to cover a different portion of the exposed substrate area,

the plasma source comprising plural at least one cascade plates plate, located between an anode and a cathode,

each the cascade plate comprising plural plasma passage openings, the passage openings of the plates aligned to form corresponding plural plasma channels defining plural, separated plasma flow paths, wherein,

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the common plasma space is located between the cathode and cascade plates plate,

the common plasma space is in open communication with the plural plasma channels,

the common plasma space accumulates plasma and distributes the accumulated plasma over the plural plasma channels,

exiting the plasma source at the discharge, via the plasma channels, are the plural, separated plasma beams (8), each plasma beam being directed to cover a different portion of the exposed substrate area.